(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



22 FEB2005

(10) International Publication Number

(43) International Publication Date

1 April 2004 (01.04.2004)

(51) International Patent Classification7: C08F 210/06. 4/642

(21) International Application Number:

PCT/US2003/028873

(22) International Filing Date:

12 September 2003 (12.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/411,778 17 September 2002 (17.09.2002)

- (71) Applicant (for all designated States except US): DOW GLOBAL TECHNOLOGIES INC. [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ARRIOLA, Daniel, J. [US/US]; 2100 East Mier Road, Midland, MI 48642 (US). BOKOTA, Marilyn [US/US]; 4431 West Lange, Beaverton, MI 48612 (US). TIMMERS, Francis, J. [US/US]; 4605 Lund Drive, Midland, MI 48642 (US).
- (74) Agent: DELINE, Douglas, N.; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW.

WO 2004/026925 A1

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: IMPROVED PROCESS FOR MANUFACTURE OF POLYMERS

(57) Abstract: A process for preparing interpolymers of ethylene and one or more C₃₋₈ olefin monomers comprising contacting a monomer mixture comprising ethylene and one or more C₃₋₈ olefin monomers with a catalyst composition comprising a Group 4 metal complex of a polyvalent, Lewis base ligand under addition polymerization conditions.